"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, G.L., dotsent

Conference on the problems of biochemistry and clinical use of corticosteroids. Zdrav. Tadzh. 6 no.5:45-46 '59. (MIRA 13:3)
(STEROIDS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

KOTS, Ya.L., prof., zasluzhennyy deyatel' nauki; KAL'SHTEYN, L.I., kand. med.nauk; MEDNIK, G.L., dotsent.

Use of mezaton in otorhinolaryngological practice. Zhur. ush., nos. i gorl. bol. 20 no.4:59-60 Jl-Ag '60. (MIRA 14:6)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhennyy deyatel' nauki prof. Ya.L.Kots) i kafedry farmakologii (zav. - dotsent G.L.Mednik) Stalinbadskogo meditsinskogo instituta imeni Avitsenny.

(ETHANOL) (OTOLARYNGOLOGY)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, G.L., dotsent; LORENTS, O.G., dotsent; BRAGINSKIY, B.M., dotsent; GLUSHCHENKO, A.G. (Dushanbe)

Functional activity of the adrenal cortex in people in high mountain regions. Probl.endok.i gorm. no.4:104-106 '62. (MIRA 15:11)

1. Iz kafedr farmakologii, normal'noy fiziologii, fakul'tetskoy terapii i sudebnoy meditsiny meditsinskogo instituta (dir. Z.P. Khodzhayev).
(ADRENAL CORTEX) (ALTITUDE, INFLUENCE OF)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

[redacted]

[redacted], G.L.; [redacted] V., T.A.

Effect of cortisone on the reactivity [redacted] and high mountains. Trudy Tadzh. med. inst. [redacted].

1. Tadzhikskiy meditsinskiy institut [redacted], Dushanbe.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

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MEDNIK, G.L., dotsent; OSMAN, Z.I.

Effect of cortisone on the passage os sulfanilamide into the fluid of pleural exudate. Pat. fiziol. i eksp. terap. 8 no.5:56-59 S-O '64. (MIRA 18:12)

1. Kafedra farmakologii (zav. - dotsent G.L.Mednik; konsul'tant prof. I.A.Oyvin) Tadzhikskogo meditsinskogo instituta imeni Avitsennyy, Dushanbe. Submitted February 28, 1963.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, I.Ya., inzhener.

Direct calculation of compression members of wooden bridges.
Trudy Khab. IIT no.7:178-188 '54. (MLRA 8:1)
(Bridges, Wooden) (Structures, Theory of)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, I.Ya., inzhener.

Determining the center of the slip curve in calculating the stability of a soil mass. Trudy Khab.IIT no.7:189-193 '54.
(Soil stabilization) (MLRA 8:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, I.Ya., inzhener.

On the use of prestressed reinforced concrete in bridge supports.
Trudy Khab.IIT no.9:61-76 '56. (MLRA 9:12)
(Bridges, Concrete) (Prestressed concrete)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK, I.Ya.

MEDNIK, I.Ya., Cand Tech Sci—(diss)
"~~Application~~ Use of tension-~~cemented~~ stressed reinforced concrete in bridge supports." Vladivostok, 1958. 12 pp (Acad Sci USSR. Far Eastern Affiliate im V.L. Komarov), 150 copies (KL,25-58, 114)

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MEDNIK, M. P.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

Name	Title of Work	Nominated by
Mednik, M. P.	"Cotton Growing" Textbook	Ministry of Agriculture Uzbek SSR

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIK M. R.

MORGUNOV, I.N.; MEDNIK, M.R.; TITARENKO, I.F.

Effect of large concentrations of penicillin on Streptococcus hemolyticus. Zhur.mikrobiol.epid.i immun. no.7:101 Jl '54. (MLRA 7:9)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.
(PENICILLIN) (STREPTOCOCCUS PYOGENES)

Abstract U-7920, 8 Mar 56

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

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Mednik, M. R. and Korol', S. A.

Further studies of hemotoxic factors in tissues of animals subjected to the action of ironizing rays. p 247

Materialy nauchnykh konferntsii, Kiev, 1959. 280pp
(Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

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MEDNIK M. R.

Mednik, M.R.

Effect of various cultivation conditions upon some metabolic processes of the abdominal typhus rod. Report 2. Effect of cultivation conditions upon the dynamics of the changes occurring in the indices during the growing of the abdominal typhus rod on bouillon of peptic digestion.

Materialy nauchnykh konferentsii, Kiev, 1959. 288pp
(Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

SHAYKHET, G.Kh.; RAPP, Yu.V.; MEDNIK, M.R.

Purification of influenza antisera. Zhur.mikrobiol.epid. i immun. 30 no.5:37-42 My '59. (MIRA 12:9)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.
(INFLUENZA, immunol.
antiserum, purification (Rus))

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MEDNIK, M. R.

Cand Biol Sci - (diss) "Effect of various culture conditions on several metabolic processes of the typhoid bacillus." Rostov-na-Don, 1961. 11 pp; (Rostov-na-Don State Univ); 200 copies; price not given; (KL, 6-61 sup, 208)

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RADEV, Asen, inzh., MEDNIKAROV, Kiril, inzh.

Device for determining discharge rate of storage battery during the time of its operation. Ratsionalizatsiia 14 no.10:37-40 '64.

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MEDNIKAROV, R.

Lake Baikal. p. 12.

Vol. 5, no. 7, 1955
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Sofiya, Bulgaria

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NEDNIKAROV, R.

Nikolai Nikolaevich Nikiuldha-Maklai; a biographic sketch. p. 18.

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Sofiya, Bulgaria

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

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MEDNIKAROV, R.

The seismograph records. p. 18

GEOGRAFIIA. Vol. 6, No. 3, 1956

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MEDNIKAROV, R.

MEDNIKAROV, R. Azure seacoast: travel notes. p. 8.

Vol. 6, No. 9, 1956
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GEOGRAPHY & GEOLOGY
Sofiia, Bulgaria

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MEDNIKAROV, R.

"Madagascar."

p.20 (Geografiia, Vol. 8, No. 6, 1958, Sofiia, Bulgaria)

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MEDNIKAROVA, M.; DELCHEV, G.

"Influence of the graft stock on the alkaloid content in Hyoscyamus niger and Atropa belladonna. In French."

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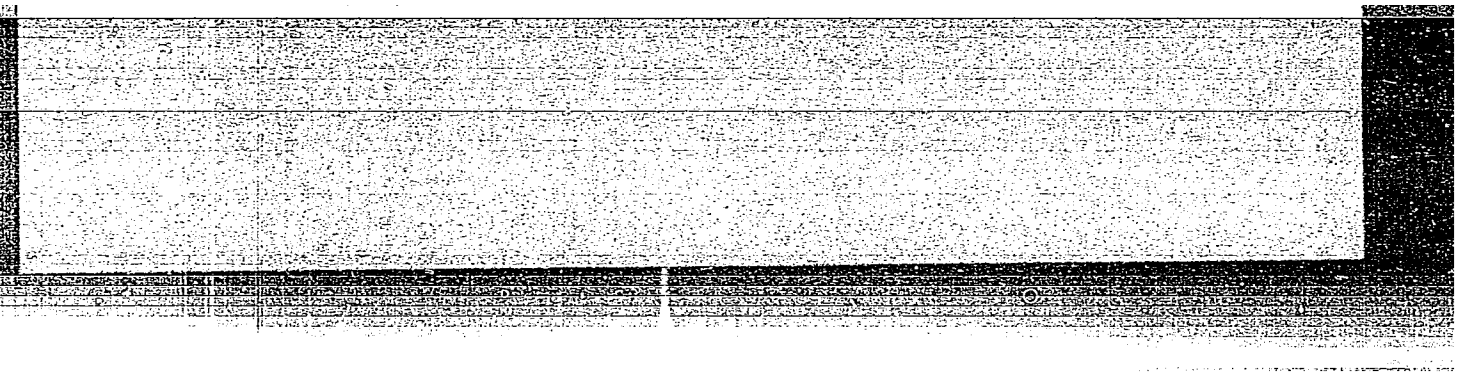

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MEDNIKOV, A.

MEDNIKOV, A. "Masters of the ore region", (Miners of the Krivoy Rog basin), Bod XXXII. Al'manakh 2, Moscow, 1949, p. 469-510.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

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MEDNIKOV, Anatolii.

Master driller Moskva Molodaia gvardiia, 1951. 85 p. (Molodye stroiteli kommunizma) (52-37889)

TN874.R9M4

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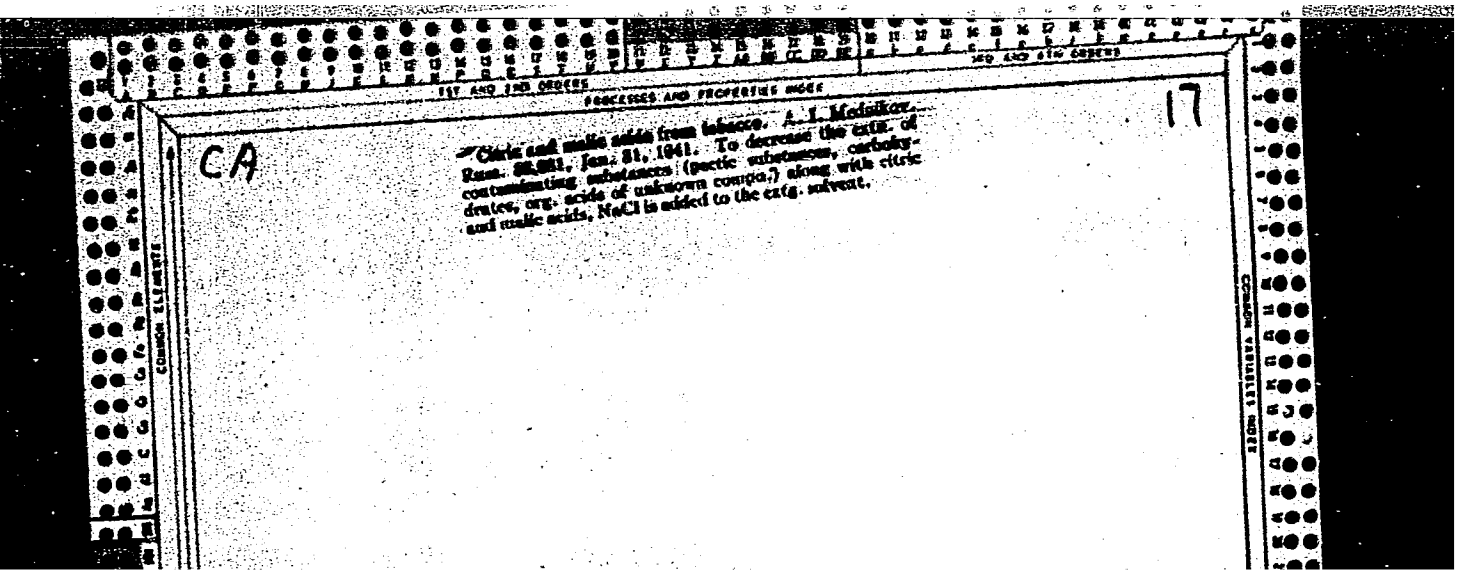

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MEDNIKOV, A. I., SHUK, A. A. and MALOV, M. K.

"Nicotine", Russ. 54,879, May 31, 1939.

Aq. ext. of tobacco is acidified with H_2SO_4 and the nicotine pptd. with $K_4FE(CN)6$ and $ZnCl_2$. The ppt. is washed and dissolved in alkali, and nicotine extd. from the soln. by means of org. solvents.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A.I.

USSR/Biology - Biochemistry

Card 1/1 Pub. 22 - 35/54

Authors : Prokohev, S. M.; Baranova, V. Z.; and Mednikov, A. I.

Title : Organic acids in cotton plant leaves

Periodical : Dok. AN SSSR 102/5, 985-987, Jun 11, 1955

Abstract : Data are presented regarding the utilization of organic acids (malic and citric acids), contained in large amounts in cotton plant leaves, as an [illegible] raw material for the manufacture of nutritive acids. Four

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MEDNIKOV, A. I. , LEYKIN, Ye. R., and SIPYAGIN, A. A.,

"Citric Acid from Makhorka," USSR 64,414, 30 Apr 45. (Chem. Abs. 40,18, 20 Sep 46)

An aq. ext. obtained from makhorka by diffusion is heated with hydroxides or carbonates to a pH 8.2. Surfaceactive and colloidal substances settle out and are filtered off. From the filtrate at pH 6-7 is p.td. a citrate with $CaCl_2$. Further processing is as usual.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

CHUMAKOV, Yu.I.; MEDNIKOV, A.I.; VIRNIK, R.I.

Preparation of nicotinic acid from nicotine. Zhur.prikl.khim. 35 no.3:602-605 Mr '62. (MIRA 15:4)
(Nicotine) (Nicotinic acid)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

CHUMAKOV, Yu.I.; RUSAKOVA, L.A.; MEDNIKOV, A.I.; VIRNIK, R.I.

Nicotinic acid. Metod.poluch.khim.reak. i prepar. no.7:79-82 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A.K.

Separation of nickel from germanium. Fiz.tver.tela 1 no.12: 1860-1862 D '59. (MIRA 13:5)

1. Institut radiotekhniki i elektroniki AN SSSR, Moskva.
(Nickel--Metallurgy)
(Germanium--Metallurgy)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

24.7500

AUTHOR: Mednikov, A. K.

TITLE: Influence Exercised by the Processing of Germanium With Lead on the Lifetime of Non-equilibrium Carriers

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 2, pp. 235-238

TEXT: The aim of the author was to investigate the possibility of extracting copper traces from germanium as well as to explain the part played by the residual copper impurities and structural defects in the recombination processes in germanium. For this purpose, samples cut out of n-type single crystals (5 . 5 . 10 mm^3) with

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lead, the other one was left unchanged. After the extraction treatment the former showed the same results as described in Refs. 1, 2, the latter showed an unchanged resistivity and an unchanged conductivity type, but a reduced diffusion length which was 1/2 to 1/5 of the initial value. The exact results of measurement are shown in Table 1. Thermal treatment in the lead contact reduced the absolute diffusion lengths of all samples; this result is unexpected since an extraction of copper which forms recombination centers was expected to increase the diffusion length. Table 2 contains the results obtained with a simultaneous treatment of high- and low-resistance samples. It is demonstrated that the decrease in the diffusion lengths cannot be explained by assuming that copper can

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purpose after the extraction did not change the diffusion lengths (Table 3). Hence, the effects observed are explained as follows: Recombination centers are formed in germanium during the crystal growth, which are, however, occupied by copper atoms. Then, an extraction of these copper atoms may lead to a decrease in the diffusion length. To verify this explanation, further experiments were made, whose results are shown in Table 4 and in the figure. In conclusion, the author thanks Professor S. G. Kalashnikov for the suggestion of the subject and discussions, V. G. Alekseyeva and I. V. Karpova for the production of the single crystals, and N. B. Pleteneva for the production of the high-purity lead. There are 1 figure, 4 tables, and 6 non-Soviet references.

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S/181/60/002/009/005/036
B004/B056

9.4340 (1193,1160,1331)

AUTHORS: Kalashnikov, S. G., Mednikov, A. K.

TITLE: The Effect of Copper Impurity Atmosphere at Dislocations in Germanium Upon Recombination

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 9, pp. 2058-2065

TEXT: In the present paper, the results obtained in an earlier paper (Ref. 1) are checked, according to which copper impurities enter into interaction with structural defects and reduce the recombination rate. From n-type [illegible] crystals copper was extracted by means of [illegible]

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increasing density of the dislocations, these maxima occur at higher copper contents. Fig. 4 shows that N_m is a linear function of N_d, and Table 2 gives the corresponding values. The experiments confirm the interaction between copper and the linear dislocations. The following was found as the optimum copper quantity c_d per unit length of dislocation: $c_d < 10^8$ cm^{-1}.

Besides the extraction of copper by means of lead, the authors also investigated the liberation of dislocations from the impurity atmosphere by means of quenching (Ref. 12). Germanium samples were heated to 625-700°C and quenched in oil. Table 3 shows that the diffusion length was thereby considerably reduced and remained unchanged by after-treatment of the germa-

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A. K.

Cand Phys-Math Sci, Diss -- "The effect of molten metal treatment of germanium on its electrical properties". Tashkent, 1961. 10 pp, 22 cm (Acad of Sci UzSSR. Joint Sci Council of the Dept of Phys-Math Sci), 175 copies, Not for sale (KL, No 9, 1961, p 175, No 24257).
/61-55868/

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

89293

S/181/61/003/001/032/042
B102/B204

9.4177 (also 1395)

AUTHORS: Kalashnikov, S. G. and Mednikov, A. K.

TITLE: Distribution of nickel in the system germanium-lead and its interaction with structural defects

PERIODICAL: Fizika tverdogo tela, v. 3, no. 1, 1961, 224-229

TEXT: It is known that Ni impurity atoms in germanium behave similarly as copper atoms. As, therefore, an interaction of copper atoms with structural defects (change in recombination rate) is known, such interaction may also be assumed in the case of nickel. A verification of this assumption was, besides determining the Ni distribution coefficient in the

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room temperature); X_1 was determined from the Ni concentration in solid lead at room temperature. The specimens were cut from an n-type Ge single crystal (3·3·17 mm); they were heated in contact with pure lead, after which the Hall constant was measured. They were then again heated in contact with a Pb-Ni alloy, and the Hall constant was again measured. The concentration N_s of the introduced nickel atoms was calculated in consideration of the existence of two energy levels on the Ni atoms. The results obtained are given in Table 1. The temperature dependence of the nickel distribution coefficient in the Ge-Pb system may be described by the relation $\ln K = A - B/T$, where $B = 13{,}800^{\circ}K$. Also the distribution of Sb and Cu in Ge and of Cu in Si obeys this law. For the purpose of proving

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temperature for 28 hr, the nickel hereby diffusing into germanium. The following results were obtained:

Number of specimen	initial specimen		after heating with pure Pb 625°C		after heat treatment (50 hr)		after introduction of Ni (28 hr)	
	ρ	L	ρ	L [mm]	ρ	L	ρ	L [mm]
14	2.0	0.9	2.0	0.2	2.0	0.2	2.0	0.5
15	1.1	0.7	1.1	0.3	1.1	0.3	1.1	0.6
16	1.4	0.8	1.4	0.3	1.4	0.3	1.4	0.7
17	1.3	0.1	1.3	0.2	1.3	0.2	1.3	0.2

All specimens had n-type conductivity. Numbers 14, 15, and 16 were nickel-coated, while 17 was not. In the course of a further series of experi-

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Distribution of nickel in the...

There are 3 figures, 3 tables, and 9 references: 4 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR (Institute of Radio-engineering and Electronics, AS USSR)

SUBMITTED: July 11, 1960

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

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Distribution of nickel in the...

Table 1

После обработки чистым свинцом 1)		После введения никеля 2)					
3) № образца	4) концентрация электронов n_0, $см^{-3}$	5) концентрация атомов Ni в свинце N_i, $см^{-3}$	6) температура, °C	7) тип проводимости	8) концентрация основных носителей, $см^{-3}$	9) концентрация атомов Ni N_0, $см^{-3}$	10) коэффициент распределения K
1	$1.3 \cdot 10^{14}$	$6.3 \cdot 10^{18}$	625	n	$1.1 \cdot 10^{14}$	$2.0 \cdot 10^{13}$	$2.3 \cdot 10^{-6}$
2	$2.1 \cdot 10^{14}$	$1.6 \cdot 10^{19}$	625	n	$1.5 \cdot 10^{14}$	$5.0 \cdot 10^{13}$	$2.3 \cdot 10^{-6}$
3	$1.3 \cdot 10^{14}$	$6.3 \cdot 10^{17}$	700	n	$1.2 \cdot 10^{14}$	$6.1 \cdot 10^{12}$	$7.1 \cdot 10^{-6}$
4	$1.6 \cdot 10^{14}$	$2.0 \cdot 10^{18}$	700	n	$1.3 \cdot 10^{14}$	$2.0 \cdot 10^{13}$	$7.3 \cdot 10^{-6}$
5	$1.6 \cdot 10^{14}$	$6.3 \cdot 10^{18}$	700	n	$8.7 \cdot 10^{13}$	$6.2 \cdot 10^{13}$	$7.2 \cdot 10^{-6}$
6	$1.1 \cdot 10^{14}$	$2.7 \cdot 10^{19}$	700	p	$1.5 \cdot 10^{14}$	$2.5 \cdot 10^{14}$	$6.9 \cdot 10^{-6}$
7	$1.3 \cdot 10^{14}$	$8.1 \cdot 10^{19}$	700	p	$1.3 \cdot 10^{14}$	$2.5 \cdot 10^{14}$	$2.3 \cdot 10^{-6}$
8	$7.8 \cdot 10^{13}$	$6.3 \cdot 10^{18}$	780	p	$1.0 \cdot 10^{14}$	$1.7 \cdot 10^{14}$	$2.0 \cdot 10^{-5}$
9	$8.5 \cdot 10^{13}$	$6.3 \cdot 10^{18}$	800	p	$1.5 \cdot 10^{14}$	$2.2 \cdot 10^{14}$	$2.6 \cdot 10^{-5}$

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89293
S/181/61/003/001/032/042
B102/B204

Distribution of nickel in the...

Legend to Table 3:
ρ - resistivity; L - diffusion length (mm);
N_d - dislocation density;
1) initial specimen.

Таблица 3 (Table 3)

№ образца	Концентрация Ni в слитке, $см^{-3}$ N_i	Тип проводимости	Удельное сопротивление, ρ, ом · см ρ	Диффузионная длина L, мм L	Плотность дислокаций N_d, $см^{-2}$ N_d
	1) Исходный образец	n	1.7	0.68	
	—	n	1.7	0.19	
	$2.2 \cdot 10^{16}$	n	1.7	0.19	
18	$4.7 \cdot 10^{16}$	n	1.7	0.19	$5 \cdot 10^3$
	$1.1 \cdot 10^{17}$	n	1.7	0.31	
	$3.0 \cdot 10^{17}$	n	1.7	0.52	

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

L 35351-66 EWT(l)/EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG/JH
ACC NR: AR6017799 SOURCE CODE: UR/0058/66/000/001/A053/A054

60
59
13

AUTHOR: Babushkin, A. A.; Mednikov, A. K.; Stroykin, N. I.

TITLE: "Window" in a semiconductor spectrometer of charged particles

SOURCE: Ref. zh. Fizika, Abs. 1A468

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1. M., Atomizdat, 1964, 12-20

TOPIC TAGS: radiation spectrometer, semiconductor barrier, charged particle, radiation detector, surface property, Alpha particle reaction

ABSTRACT: The authors investigated experimentally the influence of the thickness of the "window" (thickness of matter in which the nonregistered losses of particle energy occur) of a surface-barrier detector (SBD) on its characteristics. The SBD's used in the experiment were made of n-type silicon with resistivity ~250 - 600 ohm·cm and [illegible] and 25 mm^2. The detector "window" was gold or aluminum deposited

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L 35351-66
ACC NR: AR6017799

the SBD depends on the thickness of the "window"; 2) the use of gold or aluminum screens deposited directly on the surface of the detector, to be able to register particles with higher energies, is limited by the deterioration of the amplitude resolution; 3) the SBD can be used with very simple apparatus to determine the energy loss of an alpha particle passing through thin layers of matter. L. S. [Translation of abstract]

SUB CODE: 18 , 09

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

BABUSHKIN, A. A.; MEDNIKOV, A. K.; STROYKIN, N. I.

"Measurements of the Energy Loss of Alpha Particles in Thin Layers of Gold on Semi-Conductor Spectrometers."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A.K.; BABUSHKIN, A.A.

Silicon surface-barrier alpha-detectors. Prib. i tekh. eksp. 9 no.3:55-56 My-Je '64 (MIRA 18:1)

1. Institut yadernoy fiziki AN KazSSR.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

L 19567-65 EWT(l)/EWT(m)/EEC(b)-2 Pq-4 DIAAP/IJP(c) AEDC(b)/SSD(c)/
ARCC(b)
ACCESSION NR: AP4047464 S/0120/64/000/005/0087/0092

AUTHOR: Mednikov, A. K.; Stroykin, N. I.; Babushkin, A. A. B

TITLE: The "window" in semiconductor spectrometers of charged particles 19 21

SOURCE: Pribory* i tekhnika eksperimenta, no. 5, 1964, 87-92

TOPIC TAGS: surface barrier detector, nuclear radiation detector, charged particle detector, spectrometer, semiconductor spectrometer, charged particle semiconductor spectrometer

ABSTRACT: The results of an investigation of

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Gold or Al, deposited directly on the surface of the charged-particle detector, served as the detector window. Nuclear radiation was provided by α-particles from ThC' and ThC", Po^{210}, and Po^{239} sources. The amplitude resolution and the charge liberated by the α-particle were measured by a system consisting of a preamplifier, a differential

Card 1/3

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

discriminator, and a scaler. The preamplifier consisted of a charge-sensitive stage, a separating cathode follower, an amplifying stage, and an output cathode follower. The voltage pulse at the preamplifier output was proportional to the charge collected in the detector following ionization by an α-particle. The proportionality constant was determined by the parameters of the amplifier and did not depend

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

figures, 8 formulas, and 1 table.

Card 2/3

L 19567-65
ACCESSION NR: AP4047464

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of Nuclear Physics, AN KazSSR)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

AUTHOR: Babushkin, A. A.; Mednikov, A. K.

TITLE: Preamplifier for large-capacitance semiconductor detectors

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 105-108

TOPIC TAGS: preamplifier, radiation detector, semiconductor detector

ABSTRACT: A new charge-sensitive preamplifier with a circuit proposed by R. L. Chase et al. (IRE Trans., 1961, NS-8, no. 1, 147) and Soviet-made parts

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Card 1/2

L 36966-65
ACCESSION NR: AP5007035

10 and 15 v (capacitance, 730 and 540 pf, respectively), the resolution was 2.3%; it increased to 4% when the bias was reduced to 5 v (capacitance, 860 pf). Orig.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

it increased to 4% when the bias was reduced to 3 v (capacitance, 300 pf). Orig. art. has: 4 figures. [03]

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of Nuclear Physics, AN KazSSR)

SUBMITTED: 20Dec63 ENCL: 00 SUB CODE: EC, CO

NO REF SOV: 002 OTHER: 002 ATD PRESS: 3221

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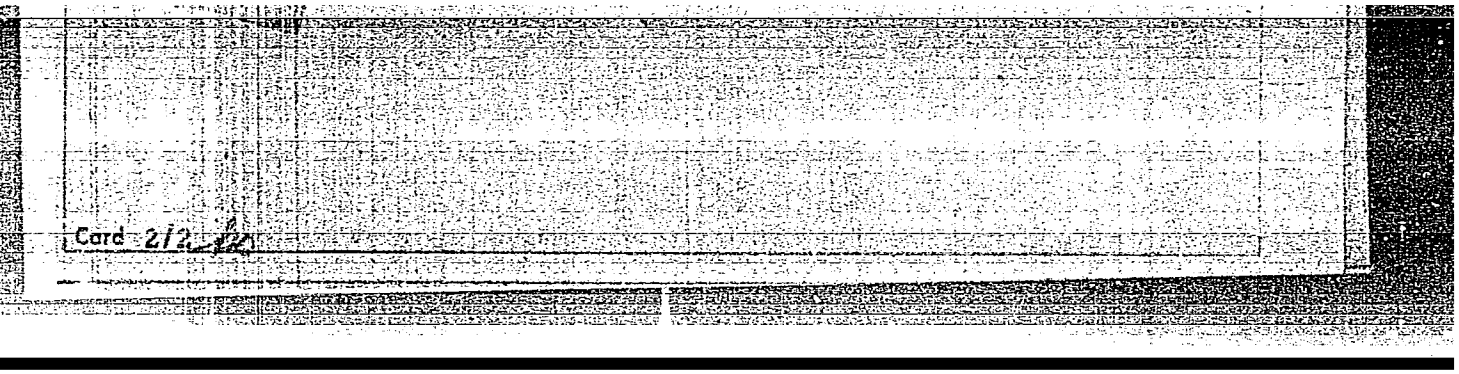

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

L 28371-66 EWA(h)/EWT(m)/T IJP(c)

ACC NR: AP5027012 SOURCE CODE: UR/0120/65/000/005/0088/0091

AUTHOR: Babushkin, A. A.; Mednikov, A. K. 58 B

ORG.: Institute of Nuclear Physics of AN Kaz SSR, Alma-Ata (Institut yadernoy fiziki)

TITLE: Preamplifier for use with semiconductor detectors of nuclear radiations 19

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 88-91

TOPIC TAGS: nuclear radiation, electronic circuit, preamplifier, circuit design, radiation detector, semiconductor device

ABSTRACT: A general circuit of a charge-sensitive preamplifier is described. This device is used for operations with the semiconductor detectors having a capacitance up to 1000 pf. The preamplifier circuit is shown in Fig. 1 (see Card 2/2). The first section consisting of the

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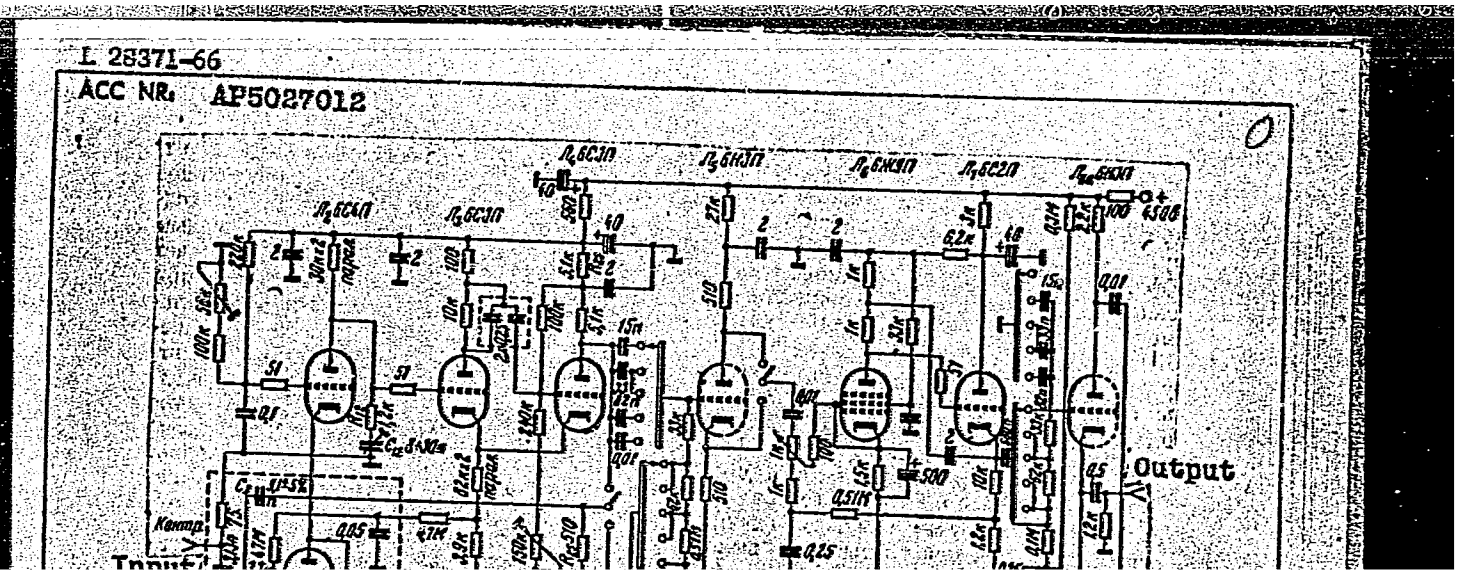

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

ratio of 5000. The possible self-excitation is eliminated by the inclusion of R_{12}, C_{12}, R_{25}, C_{17}, and C_2 in the circuit network. The tuning of these circuit elements is explained. The elimination of spurious oscillations by means of capacitors C_{12} and C_{17} is briefly discussed. The dependence of the output voltage and the noise level upon the input capacitance was graphically characterized. The noise curve shows a rapid increase in noises at the capacitances higher than 1 nf. The preamplifier resolution was about 2% at a 1 nf-input capacitance. Orig. art. has: 2 figures.

SUB CODE: 18 / SUBM DATE: 11Aug65 / ORIG REF: 002 / OTH REF: 002

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

L 00228-67 EWT(l)/EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6019916 SOURCE CODE: UR/0275/66/000/002/B036/B036

54
53

AUTHOR: Babushkin, A. A.; Mednikov, A. K.; Stroykin, N. I.

TITLE: "Window" in a semiconductor spectrometer for charged particles

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 2B289

REF SOURCE: Tr. 6-y nauchno-tekhn. konferentsii po yadern. radioelektron. T. I. M., Atomizdat, 1964, 12-20

TOPIC TAGS: radiation spectrometer, semiconductor research, nuclear research, particle physics, Alpha particle detector, CHARGED PARTICLE

ABSTRACT: The effect of the "window" thickness (layer of the substance in which unregistered losses in particle energy occur) of the surface-barrier detector (PBD) [illegible] PBD made of n-type silicon

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L 09228-67

ACC NR: AR6019916

installation consisting of a preamplifier, a type AADØ-1 differential discriminator, and a type PS-10000 scaler. The following conclusions were arrived at on the basis of the experimental results: (1) amplitude resolution for the PBD depends on "window" thickness; (2) the use of Au or Al grids, applied directly to the surface of the detector to make possible registration of higher energy particles, is limited by deterioration in amplitude resolution; (3) the PBD, together with an extremely simple component, can be used to determine the energy lost by the Alpha particles in passing through the thin layers of the substance. L. S. [Translation of abstract]

SUB CODE: 20, 14

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A. M.

Hosiery

Improving the quality of cottonized stockings made from caprone. Leg. prom. 12 no. 9, 1952.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A.N.

USSR/ Miscellaneous

Card 1/1 : Pub. 103 - 2/29

Authors : Mednikov, A. M., and Teyrlin, M. M.

Title : Utilization of electromechanical systems of periodic AC-current feeding in heavy machines

Periodical : Stan. i instr. 9, 7-10, Sep 1954

Abstract : The advantages and disadvantages of using electromechanical systems for periodic AC-current feeding in heavy metal-processing machines are discussed. The electrical motors most recommended for this purpose are described. Graphs; drawings; illustrations.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, A. N.

AID P - 4216

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 17/20

Authors : Mednikov, A. N. and N. M. Tsyrlin

Title : Spring and Arrow-Type Dynamometers

Periodical : Stan. i instr., 1, 39-40, Ja 1956

Abstract : The Kolomenskiy (near Moscow) Plant has built new and improved dynamometers of a spring and arrow-type design of 5 to 200 kgs capacity. The authors describe the 50 kg dynamometer and illustrate it. One picture and

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

ANDRIYEVSKAYA, L.D.; MEDNIKOV, B.M.

Role of deep-sea organisms in the nutrition of Oncorhynchus. Dokl. AN SSSR 109 no.2:387-388 Jl '56. (MIRA 9:10)

1. Kamchatskyoe otdeleniye Vsesoyuznogo tikhookeanskogo nauchno-issledovatel'skogo instituta rybnogo khozyaystva i okeanografii. Predstavleno akademikom Ye.N. Pavlovskim.
(Salmon)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.; PROKHOROV, V.G.

A new species of Cyclopteropsis (Pisces, Cyclopterinae) from the Bering Sea. Dokl. AN SSSR 111 no.3:717-719 N '56. (MLRA 10:2)

1. Kamchatskoye otdeleniye Vsesoyuznogo Tikhookeanskogo nauchno-issledovatel'skogo instituta rybnogo khozyaystva i okeanografii. Predstavleno-akademikom Ye.N. Pavlovskim.
(Bering Sea--Cyclopteridae)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M. (Petropavlovsk--Kamchatskiy).

Distribution of Velella late biocoenosis in the Pacific Ocean.
Priroda no.6:126 Je '57. (MIRA 10:7)
(Pacific Ocean--Marine fauna)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

USSR / General Biology. General Hydrobiology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14476

Author : Mednikov, B. M.
Inst : Pacific Ocean Scientific Research Institute of Pisciculture and Oceanography
Title : Planktons and Herring of the Olyutorskiy-Navarinskiy Rayon

Orig Pub : Izv. Tikhookeansk. n.-i. in-ta rybn. kh-va i okeanogr., 1957, 44, 57-65

Abstract : During the time between 15 June to 15 August 1954, 163 samples of plankton were collected. [illegible] plankton of the North-Western part of

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

USSR / General Biology. General Hydrobiology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14476

herring swarms and the distribution of plankton complexes are compared. The highest concentrations of herring were found in the development zones of the Eucalanus bungii brood (in June - beginning of July) and in the alga withering zone (at the end of July). Highly intensive feeding is recorded for the development zone of Calanus cristatus and C. tonsus. Plankton distribution maps and herring catch maps are given for the Olyutorskiy and Olyutorskiy-

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B. M.

A new species of the genus Pseudalibrotus Della-Valle (Amphipoda) in brackish waters of the Far East. Nauch. dokl. vys. shkoly; biol. nauki no.3:10-13 '60. (MIRA 13:8)

1. Rekomendovana kafedroy zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Anadyr Gulf--Amphipoda)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Production of calanids in Far Eastern seas of the U.S.S.R. Biul. MOIP. Otd. biol. 65 no. 4:150 Jl-Ag '60. (MIRA 13:10)
(PACIFIC OCEAN--COPEPODA)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Production of calanids in the northwestern part of the Pacific Ocean.
Dokl. AN SSSR 134 no.5:1208-1210 O '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom Ye.N.Pavlovskim.
(Pacific Ocean—Copepoda)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B. M., Cand Bio Sci -- "Zooplankton of the northwestern part of Pacific Ocean as a feeding base for salmon and its productivity." Mos, 1961. (Acad Sci USSR. Inst of Oceanology) (KL, 8-61, 237)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Modification of Brodskii-Baskakov's method for rapid plankton count. Nauch. dokl. vys. shkoly; biol. nauki no. 1:11-12 '61. (MIRA 14:2)

1. Rekomendovana kafedroy zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(PLANKTON RESEARCH)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.; STAROBOGATOV, Ya.I.

Random cell for counting small biological objects. Trudy Gidrobiol. ob-va 11:426-428 '61. (MIRA 15:1)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta, Moskva.
(Plankton research)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Differences in the biological characteristics of food organisms as a factor determining fish growth and the composition of commercial complexes. Vop. ikht. 2 no.2:299-308 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii (VNIRO), Moskva.
(Fishes--Food)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Effect of the viscosity of water on the variability in fishes. Vop.ikht. 2 no.4:640-647 '62. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (VNIRO), Moskva.
(Fishes--Anatomy)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

BARSUKOV, V.V.; MEDNIKOV, B.M.

Symposium on rosefish held by the International Commission for the Northwest Atlantic Fisheries and the International Council for the Exploration of the Sea in 1961. Vop.ikht. 2 no.4:758-762 '62. (MIRA 16:2)

(Rosefish)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Duration of the metamorphosis in Calanoida and a determination of the development of species with an extended period of reproduction. Okeanologiia 2 no.5:881-887 '62. (MIRA 15:11)
(Copepoda)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Some problems of systematics and philogenesis of lower Teleostei.
Biul. MOIP. Otd. biol. 67 no.1:155-156 Ja-F '62. (MIRA 15:3)
(TELEOSTEI)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Ecological forms of fishes and the problem of sympatric speciation. Zool. zhur. 42 no.1:70-77 '63. (MIRA 16:5)

1. All-Union Research Institute of Fishery Management and Oceanography, Moscow.
(Fishes) (Origin of species)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.

Correlation between the development rate in insects and the nucleotide composition of their ribosome RNA. Dokl. AN SSSR 161 no.3:721-723 Mr '65. (MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet. Submitted June 18, 1964.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210020-9

MEDNIKOV, B.M.; ANTONOV, A.S.; BELOZERSKIY, A.N., akademik

Molecular mechanism of the Crozier principle in its application to the development of poikilothermal animals. Dokl. AN SSSR 165 no.1:227-229 N '65. (MIRA 18:10)

1. Moskovskiy gosudarstvennyy universitet.

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Organization and improvement of communication in industrial administrations. Vest. sviazi 23 no.5:18 My '63. (MIRA 17:4)

1. Nachal'nik Rostovskogo oblastnogo upravleniya svyazi.

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SOKOLOV, Aleksey Nikolayevich; MEDNIKOV, D.M., inzh., retsenzent; VARKOVETSKAYA, A.I., red. izd-va; PETERSON, M.M., tekhn. red.

[Rapid smelting of steel in electric-arc furnaces]Skorostnye plavki stali v dugovykh elektropechakh. Izd.2., perer. i dop. Moskva, Mashgiz, 1963. 271 p. (MIRA 16:4)
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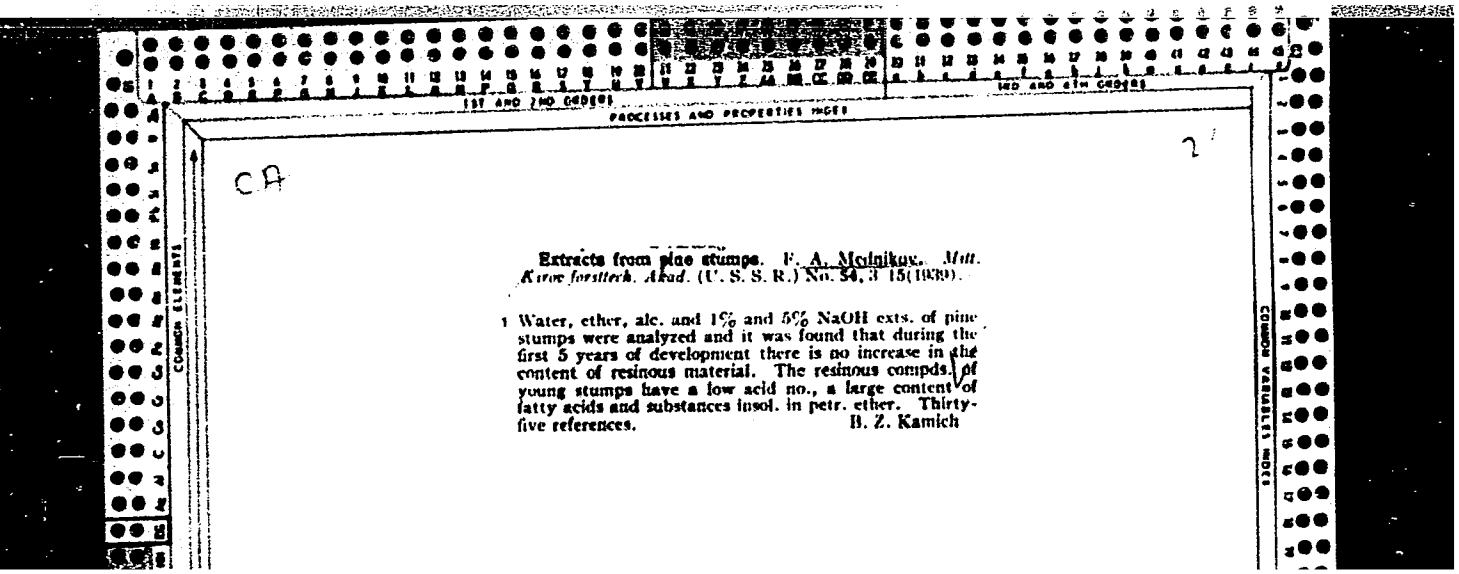

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Extracts from pine stumps. F. A. Melnikov. *Mitt. Kirov forstlech. Akad.* (U. S. S. R.) No. 54, 3–15(1939).

Water, ether, alc. and 1% and 5% NaOH exts. of pine stumps were analyzed and it was found that during the first 5 years of development there is no increase in the content of resinous material. The resinous compds. of young stumps have a low acid no., a large content of fatty acids and substances insol. in petr. ether. Thirty-five references. B. Z. Kamich

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SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

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24093 MEDNIKOV, F. A. O smolistosti osmolopodsochnoy drevesiny. Izvestiya Akad. Nauk Latv. SSR, 1949, No. 7, S. 103-11. - Rezyume NA Latysh. Yaz Bibliogr: 12 Nazv.

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36747. Iskusstvennoye prosmoleniye molodykh sosnovykh pney. Izvestiya Akad. navk Latv. SSR, 1949, No. 10, c. 65-76---Rezyume na latvysh. yaz.-- Bibliogr: c. 75-76.

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Mednikov, F. A. - "Investigating the essential oil of spruce and determining its industrial application," Trudy Lesotekhn. akad. im. Kirova, No65, 1949, p. 167-80, - Bibliog: 34 items

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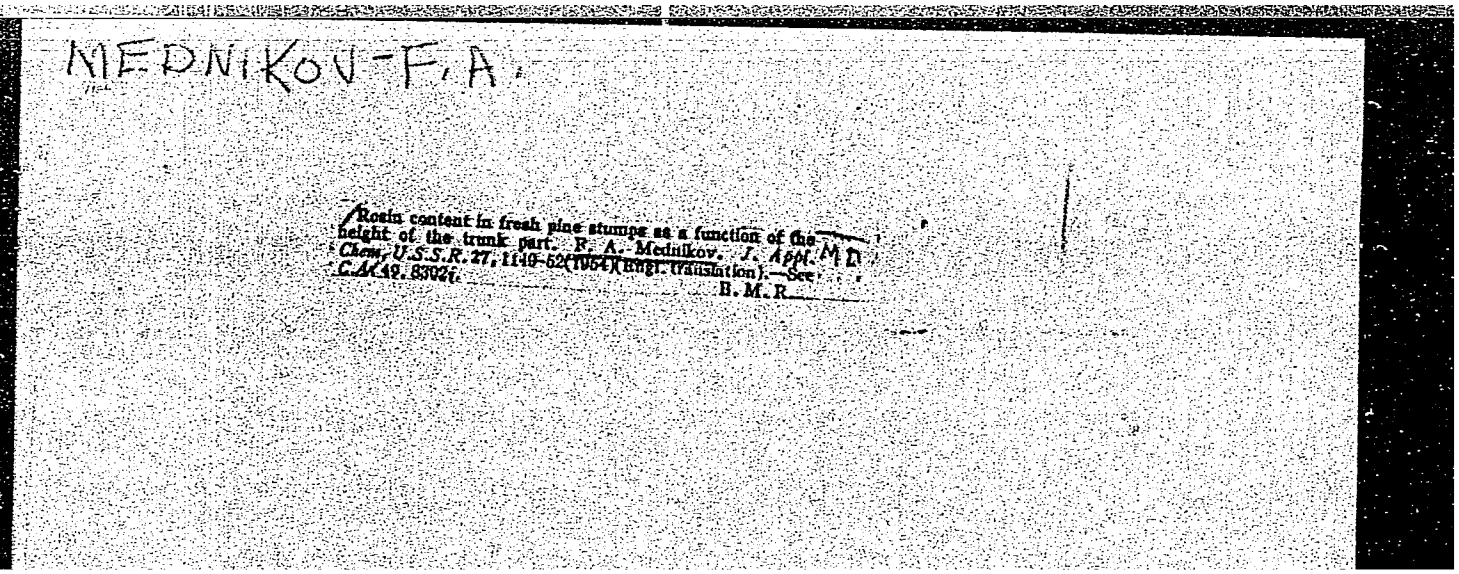

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Rosin content in fresh pine stumps as a function of the height of the trunk part. F. A. Mednikov. *J. Appl. Chem. U.S.S.R.* 27, 1149-52(1954)(Engl. translation).—See *C.A.* 49, 8302*i*.
B. M. R.

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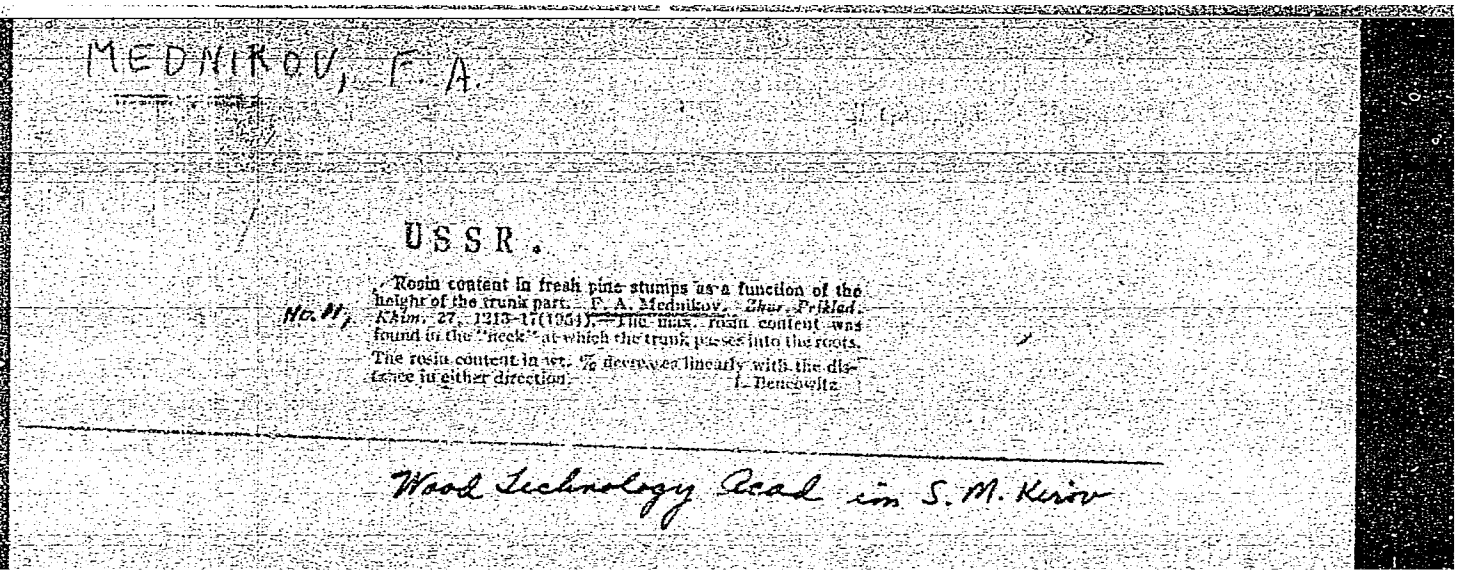

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USSR.

No. 11, Rosin content in fresh pine stumps as a function of the height of the trunk part. F. A. Mednikov. *Zhur. Prikład. Khim.* 27, 1213–17(1954).—The max. rosin content was found in the "neck" at which the trunk passes into the roots. The rosin content in wt. % decreases linearly with the distance in either direction. I. Benchowitz

Wood Technology Dept. im. S. M. Kirov

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SO: Knizhnaya Letopis', No. 34, 20 August 1955

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MEDNIKOV, F.A.;TYUL'PANOVA, T.N.

Weight computations of tar-impregnated stumps. Gidrolis. i lesokhim. prom. 8 no.5:26-27 '55. (MLRA 9:1)

1.Leningradskaya lesotekhnicheskaya akademiya imeni S.M.Kirova.
(Wood--Measurement)

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MEDNIKOV, F. M.

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6246

Author: Mednikov, F. A., Tyul'panova, T. N.

Institution: None

Title: Procurement and Processing of Lumbering Lightwood

Original Publication: Gidroliznaya i lesokhim. prom-st', 1956, No 5, 26-27

Abstract: The technical and economic factors in the processing of lightwood derived from lumbering are analogous to those in treatment of

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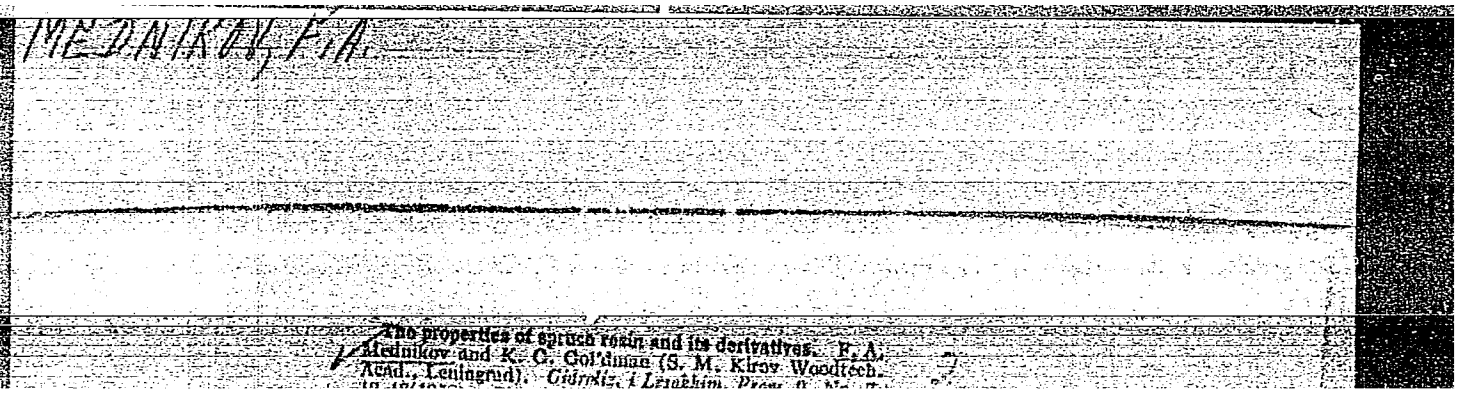
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The properties of spruce resin and its derivatives. F. A. Mednikov and K. G. Gol'dman (S. M. Kirov Woodtech. Acad., Leningrad). *Gidroliz. i Lesokhim. Prom.* [illegible]

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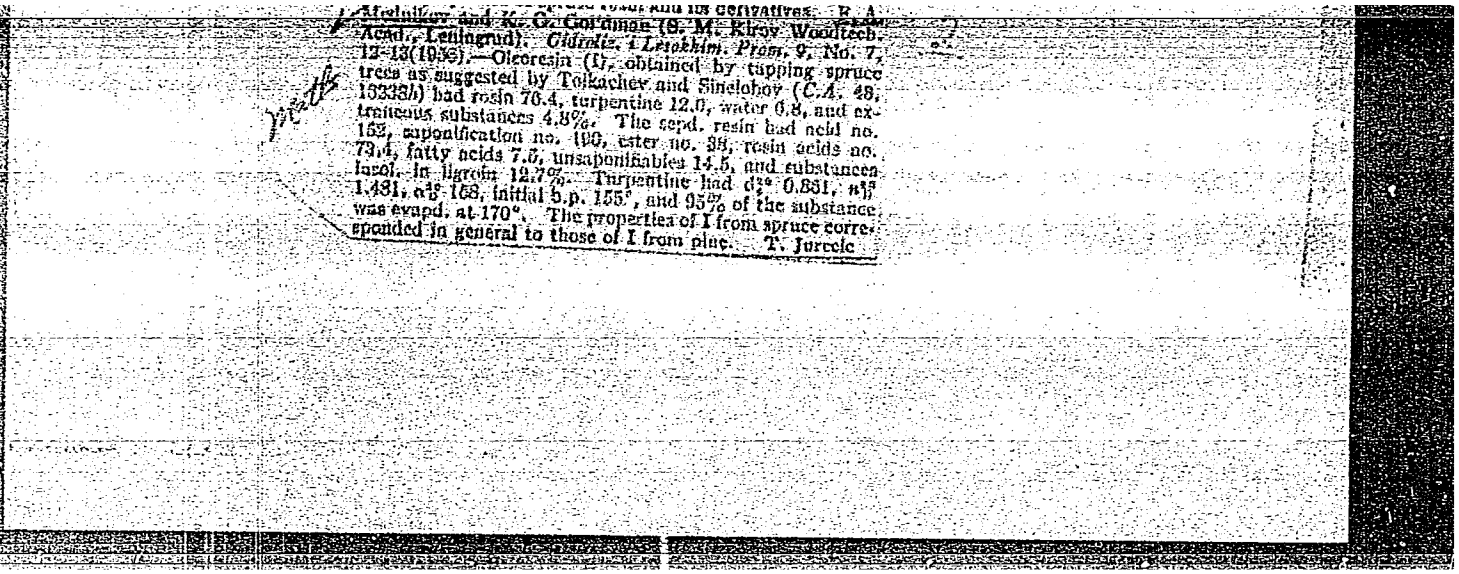

Afanas'ev and K. G. Gorbunov (S. M. Kirov Woodtech. Acad., Leningrad). *Gidroliz. i Lesokhim. Prom.* 9, No. 7, 12-13(1956).—Oleoresin (I), obtained by tapping spruce trees as suggested by Tolkachev and Sinelobov (*C.A.* 48, 13333h) had rosin 76.4, turpentine 12.0, water 0.8, and extraneous substances 4.8%. The sepd. resin had acid no. 153, saponification no. 190, ester no. 38, resin acids no. 73.4, fatty acids 7.6, unsaponifiables 14.5, and substances insol. in ligroin 12.7%. Turpentine had d_{20}^{20} 0.851, n_D^{20} 1.481, α_D^{20} 168, initial b.p. 155°, and 95% of the substance was evapd. at 170°. The properties of I from spruce corresponded in general to those of I from pine. T. Jurcsic

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